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(54) MOBILE BODY COMMUNICATION SYSTEM, BASE STATION AND MOBILE STATION

(57)Abstract:

PROBLEM TO BE SOLVED: To keep high throughput by controlling the system such that a transmission probability is increased when traffic is small and the transmission probability is decreased when traffic is high thereby reducing collision probability.

SOLUTION: Upon the receipt of a signal of an access channel sent by mobile stations 10, 20, a base station 30 uses a transmitter-receiver 31 to demodulate the signal and a reception base band signal is outputted to a traffic measurement section 32 and a base band signal processing section 34. The traffic measurement section 32 measures a valid reception packet number R in the unit time and outputs the measurement result R to a transmission probability calculation section 33 as traffic information and the transmission probability calculation section 33 calculates a transmission probability P. When a transmission

packet is provided, the transmission packet is sent by the same probability as the transmission probability to reduce collision probability to keep a high throughput.

